# NASA TECH BRIEF



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# Scribable Coating for Plastic Films

# The problem:

To provide a scribable, opaque coating for transparent plastic film tape. The coating must not be affected by aging, vacuum, and moderate temperature extremes.

## The solution:

A coating consisting of titanium dioxide (white pigment), a water-compatible acrylic polymer emulsion (binder), and a detergent (e.g., a potassium or sodium soap).

#### How it's done:

The ingredients are blended with deionized water and the resultant mixture is filtered through a silk screen. By means of a spraygun, the filtrate is sprayed onto one surface of the plastic film to a thickness of approximately 0.0005 inch. The coated film is airdried for 1 hour and then vacuum-baked for 12 hours. The resultant coating is flexible, durable, and can readily be inscribed with a stylus to provide a permanent record of any desired data.

#### Notes:

- The coating mixture can be readily dispersed in water before it is dried. This feature facilitates cleanup of materials and equipment after the work is completed.
- The coating is applied to the backside of gelatincoated films.
- Inquiries concerning this coating may be directed to:

Technology Utilization Officer Manned Spacecraft Center Houston, Texas 77058 Reference: B67-10409

### Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

Source: Roger T. Clark of North American Aviation, Inc. under contract to Manned Spacecraft Center (MSC-11194)

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